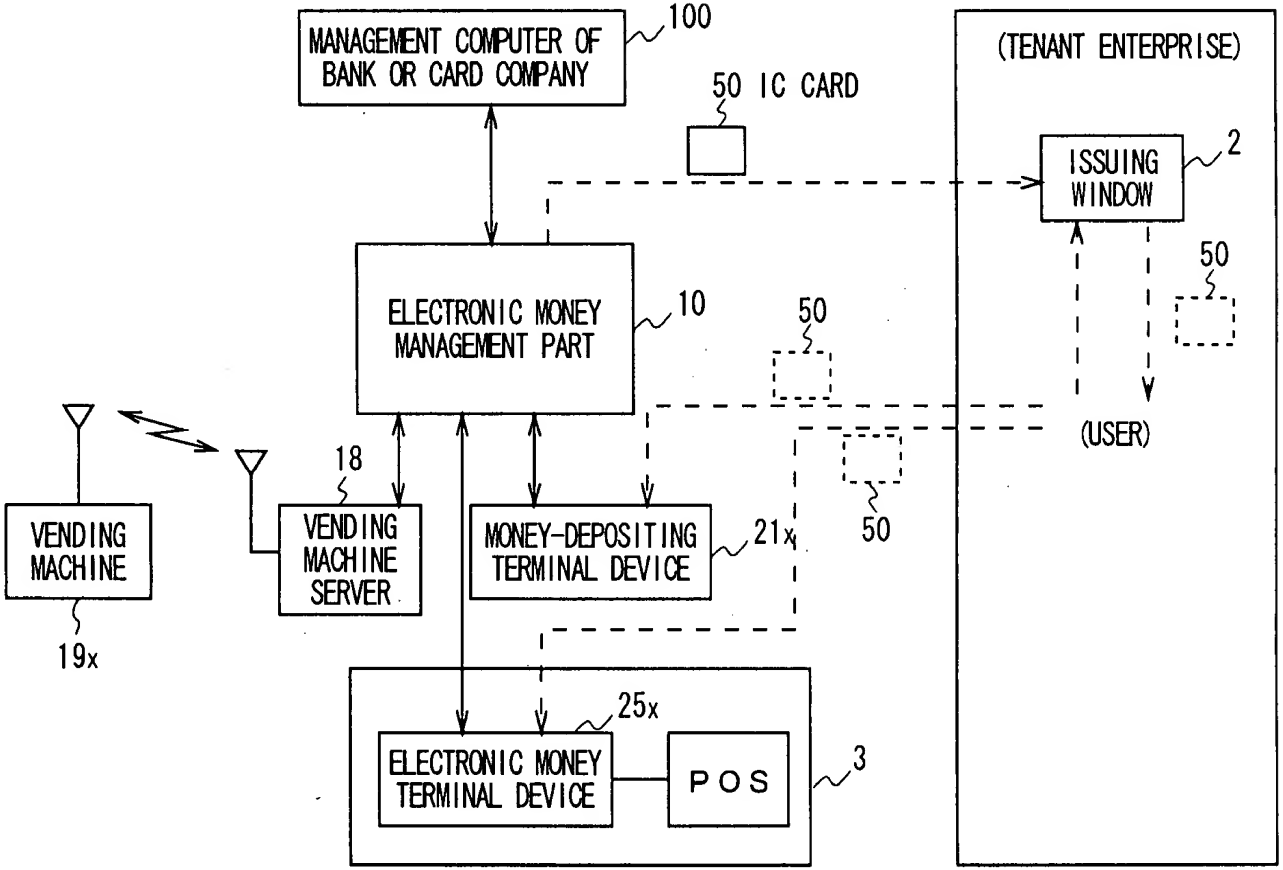
MANAGEMENT COMPUTER OF BANK OR CARD COMPANY
100
50 IC CARD
(TENANT ENTERPRISE)
ISSUING WINDOW
2
50
ELECTRONIC MONEY MANAGEMENT PART
10
50
(USER)
18
VENDING MACHINE
VENDING MACHINE SERVER
MONEY-DEPOSITING TERMINAL DEVICE
21x
50
19x
25x
ELECTRONIC MONEY TERMINAL DEVICE
POS
3
1

FIG. 1

00h220° 52h27560

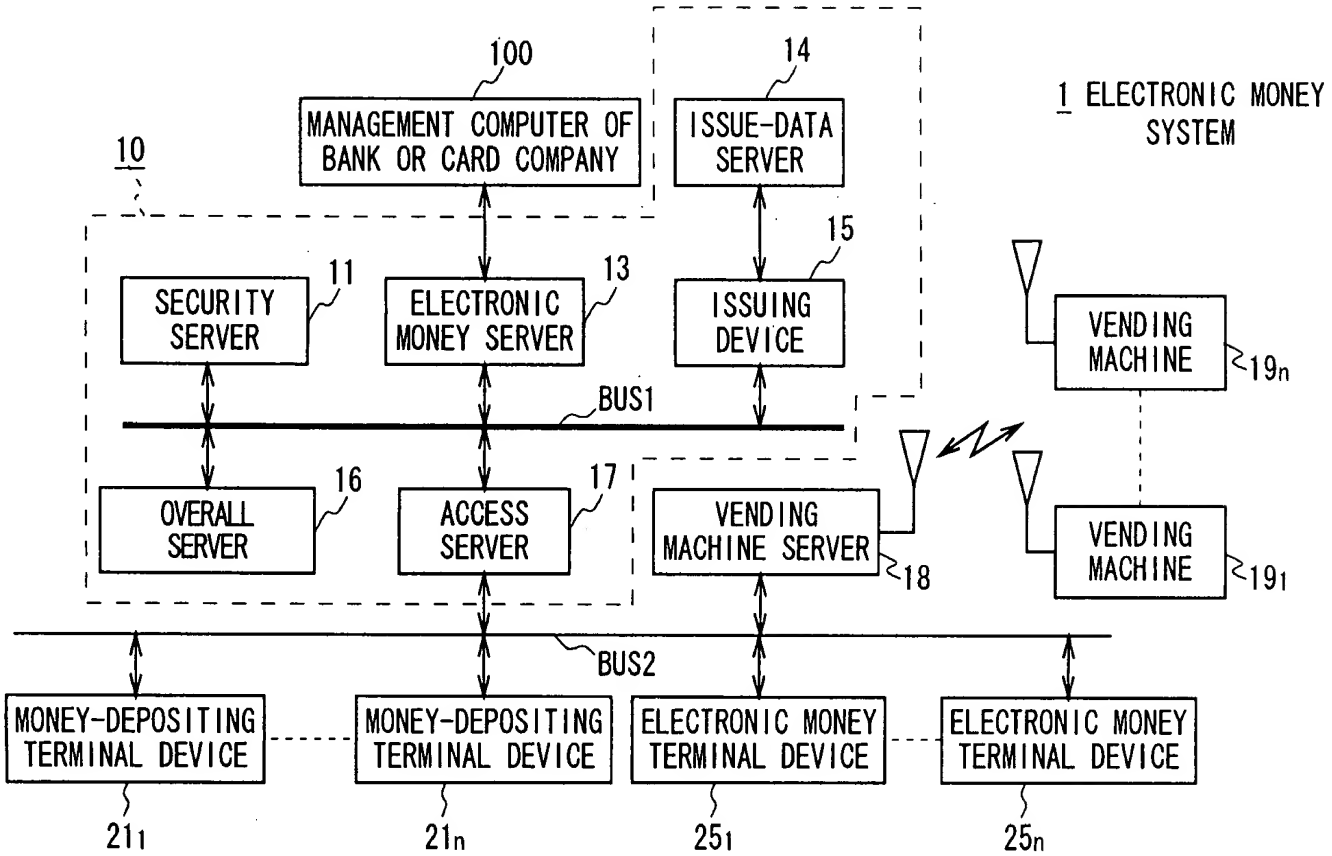

FIG. 2

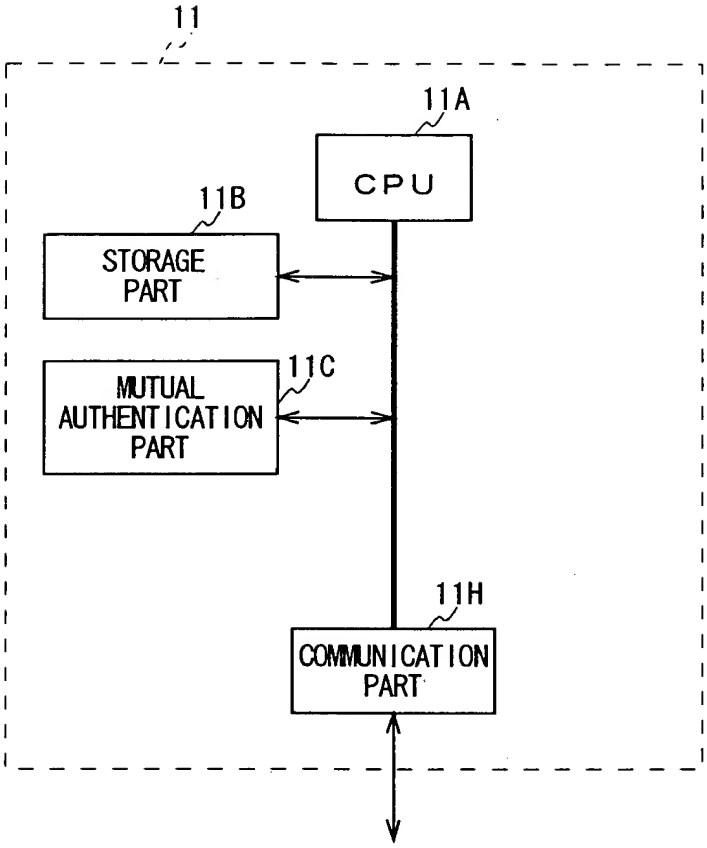
11
11A
CPU
11B
STORAGE PART
11C
MUTUAL AUTHENTICATION PART
11H
COMMUNICATION PART

FIG. 3

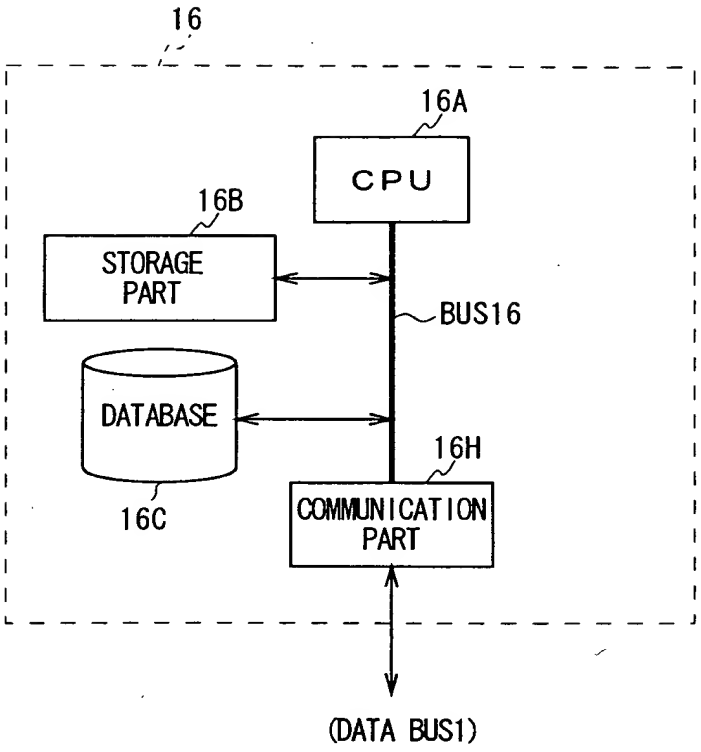
16
16A
CPU
16B
STORAGE PART
BUS16
DATABASE
16H
16C
COMMUNICATION PART
(DATA BUS1)

FIG. 4

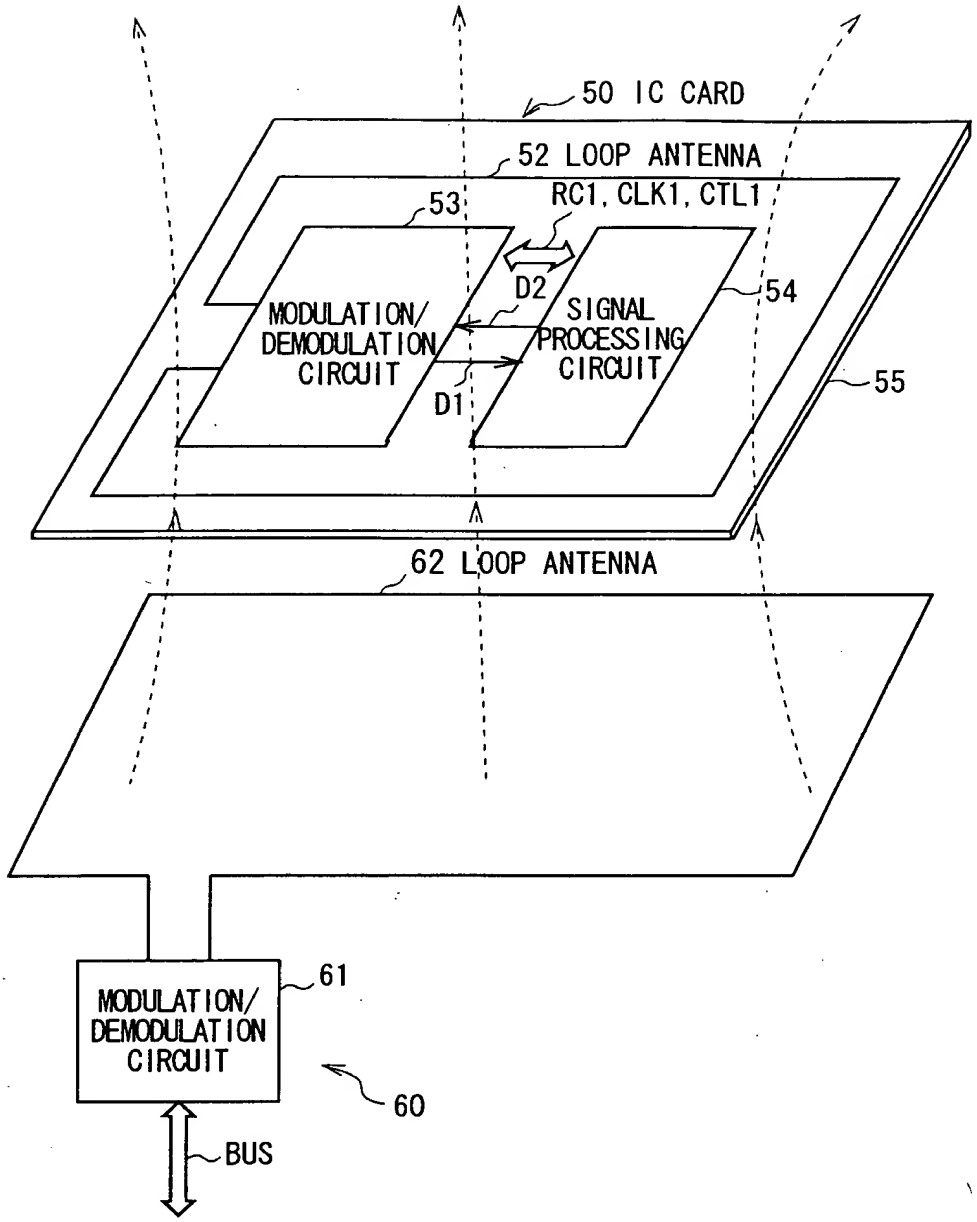
50 IC CARD
52 LOOP ANTENNA
53
RC1, CLK1, CTL1
D2
54
MODULATION/
DEMODULATION
CIRCUIT
SIGNAL
PROCESSING
CIRCUIT
D1
55
62 LOOP ANTENNA
61
MODULATION/
DEMODULATION
CIRCUIT
60
BUS

FIG. 5

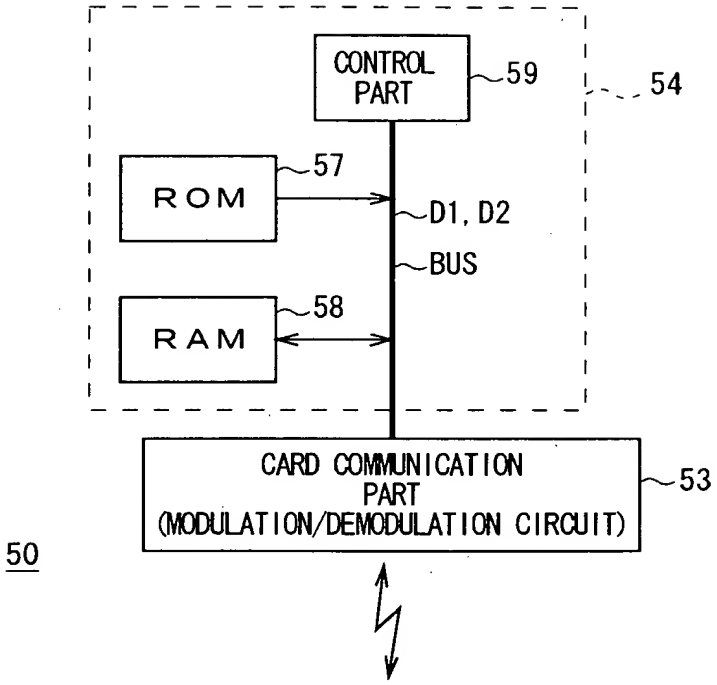
CONTROL PART
59
54
ROM
57
D1, D2
BUS
RAM
58
CARD COMMUNICATION PART (MODULATION/DEMODULATION CIRCUIT)
53
50

FIG. 6

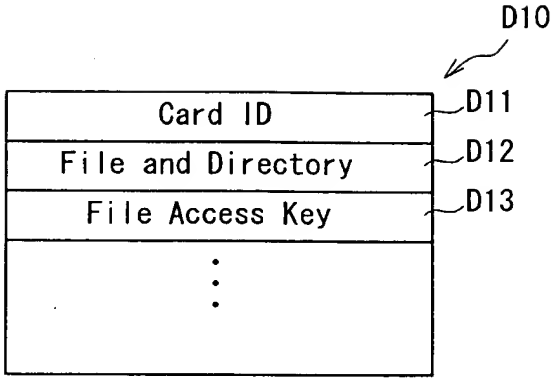

FIG. 7A

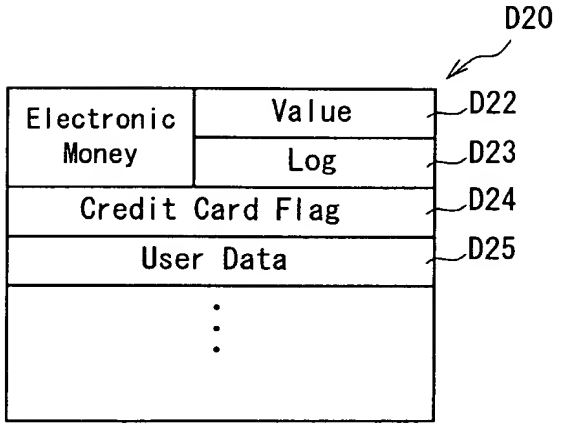

FIG. 7B

0952425 D03400

09512425 - 022400

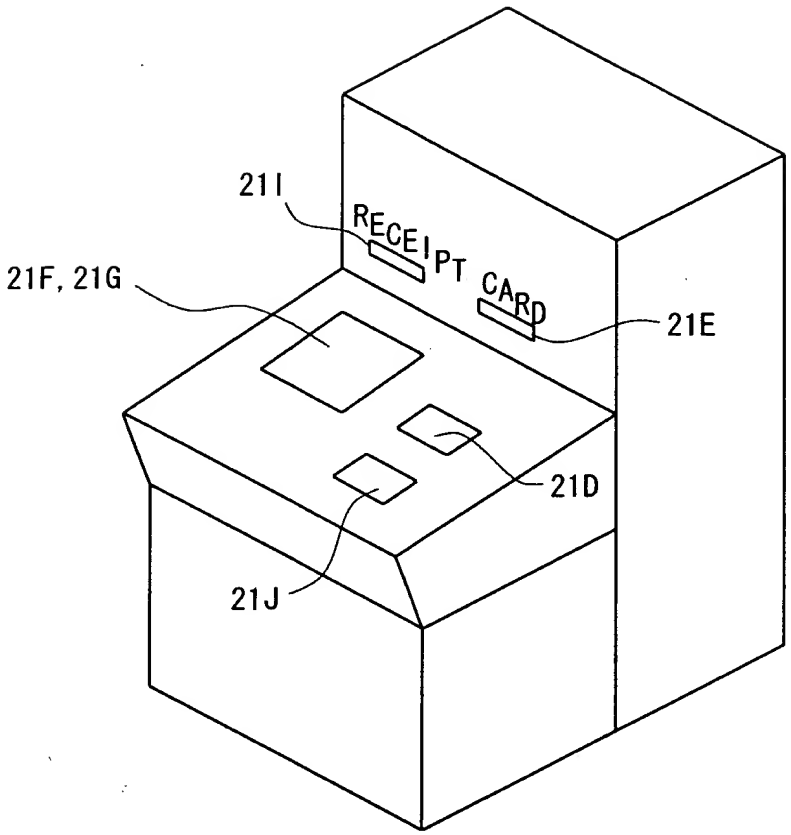

FIG. 8

09512425 - 022400

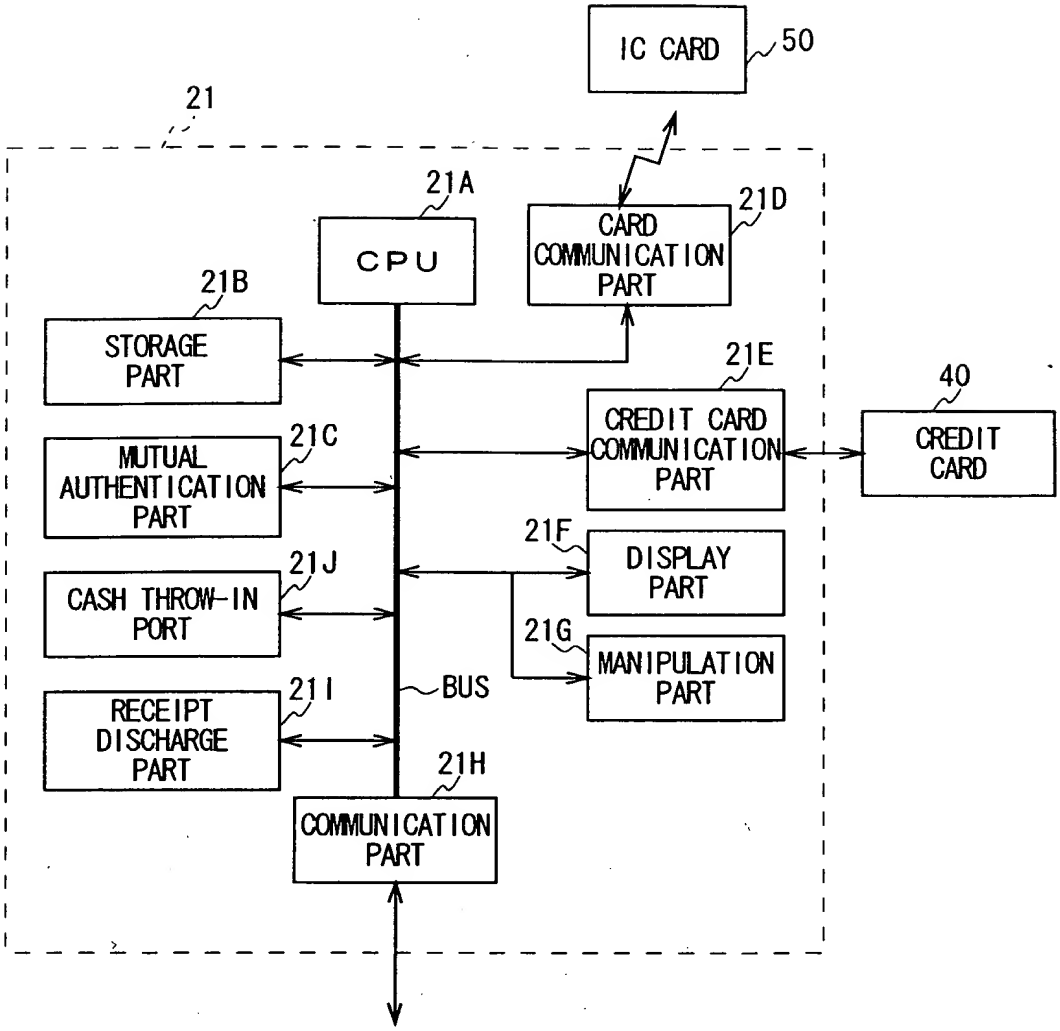

FIG. 9

0054246250 - 020400

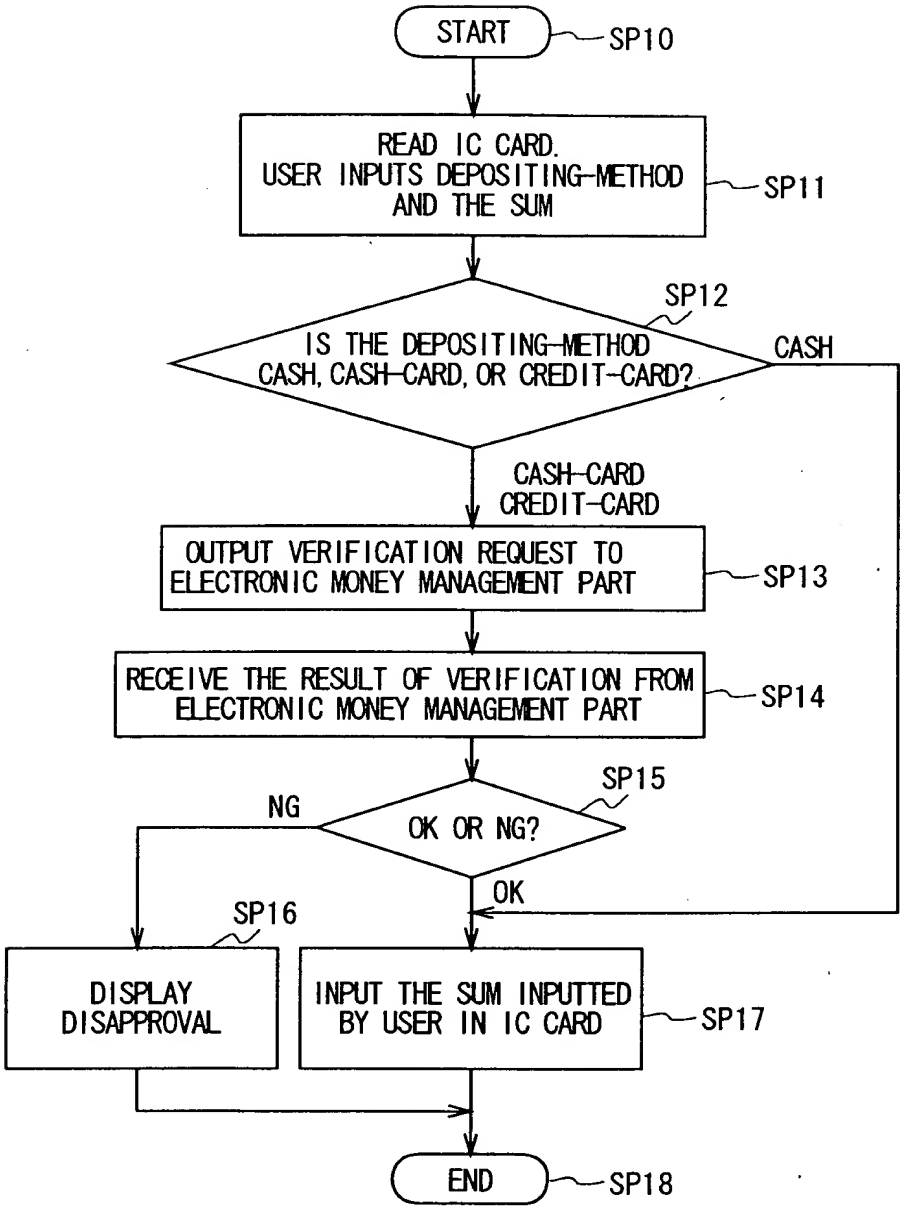

FIG. 10

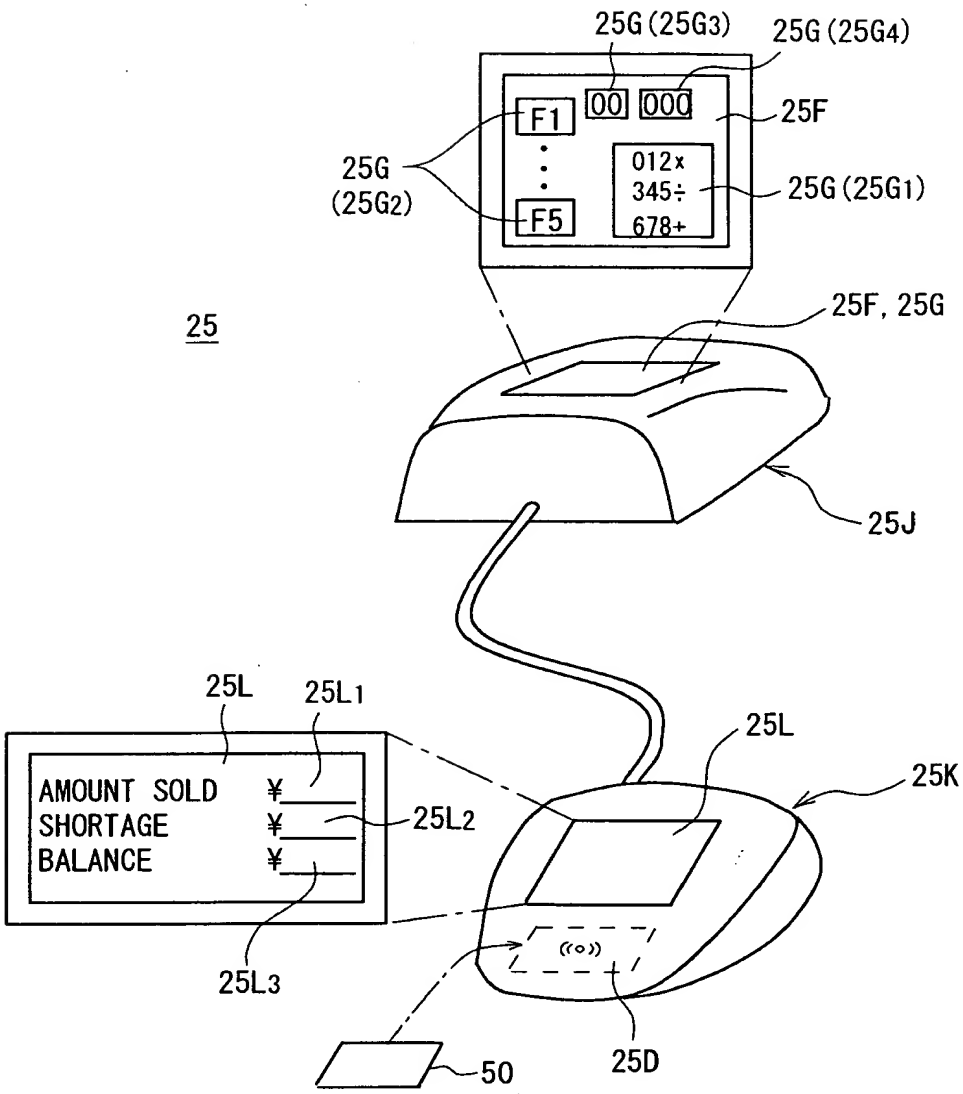
25G (25G3)
25G (25G4)
00
000
F1
F5
25F
25G
(25G2)
012x
345÷
678+
25G (25G1)
25
25F, 25G
25J
25L
25L1
AMOUNT SOLD ¥
SHORTAGE ¥
BALANCE ¥
25L2
25L
25K
25L3
25D
50

FIG. 11

09512425 - 022400

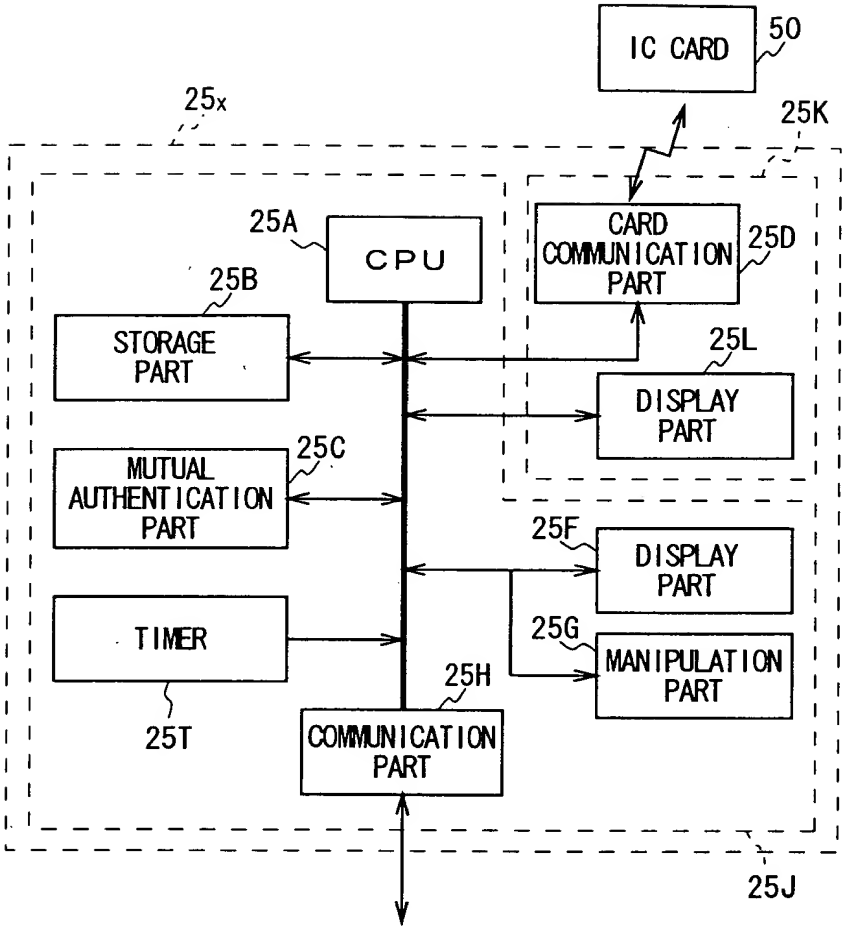

FIG. 12

09512425.022400

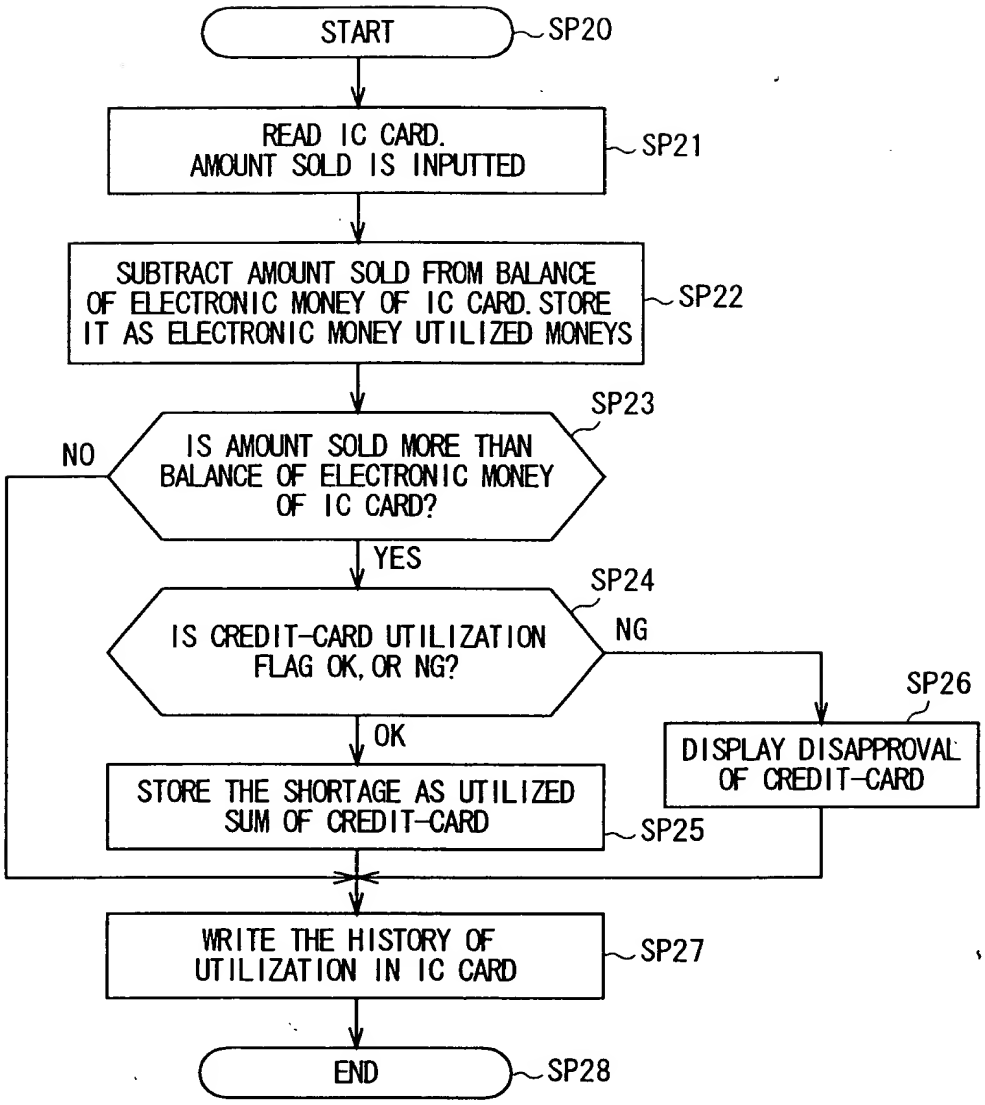

FIG. 13

D23

		CONTENTS	byte
D231	1	Card Transaction S/N (A)	32byte
D232	2	Log Type	
	3	(Reserved)	
D233	4	Data/Time	
D234	5	Terminal Number	
D235	6	Dealing Value (unsigned)	
	7	Card Transaction S/N (B)	
D236	8	Signature1 Key Version	
D237	9	Balance Data	
D238	10	Terminal Transaction S/N	
	11	(Reserved)	
D239	12	Signature1	

FIG. 14A

D23A

D23A1	13	Card IDm	16byte
D23A2	14	Terminal Transaction Flag	
	15	(Reserved)	
D23A3	16	Signature2 Key Version	
D23A4	17	Signature2	

FIG. 14B

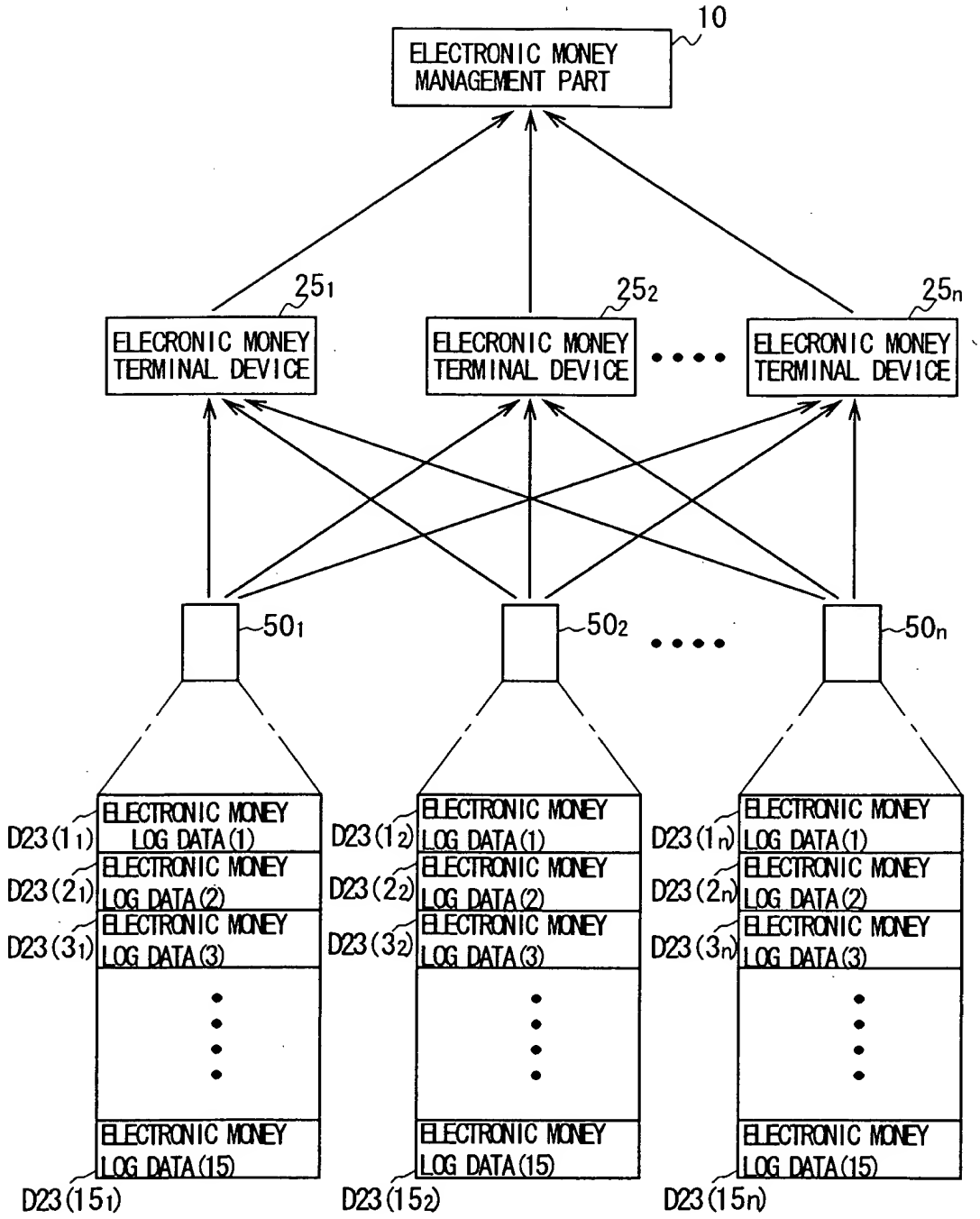
10
ELECTRONIC MONEY MANAGEMENT PART
25₁
25₂
25n
ELECRONIC MONEY TERMINAL DEVICE
ELECRONIC MONEY TERMINAL DEVICE
ELECRONIC MONEY TERMINAL DEVICE
50₁
50₂
50n
D23(1₁)
D23(2₁)
D23(3₁)
D23(15₁)
D23(1₂)
D23(2₂)
D23(3₂)
D23(15₂)
D23(1n)
D23(2n)
D23(3n)
D23(15n)
ELECTRONIC MONEY LOG DATA(1)
ELECTRONIC MONEY LOG DATA(2)
ELECTRONIC MONEY LOG DATA(3)
ELECTRONIC MONEY LOG DATA(15)

FIG. 15

0951245 - 0224400

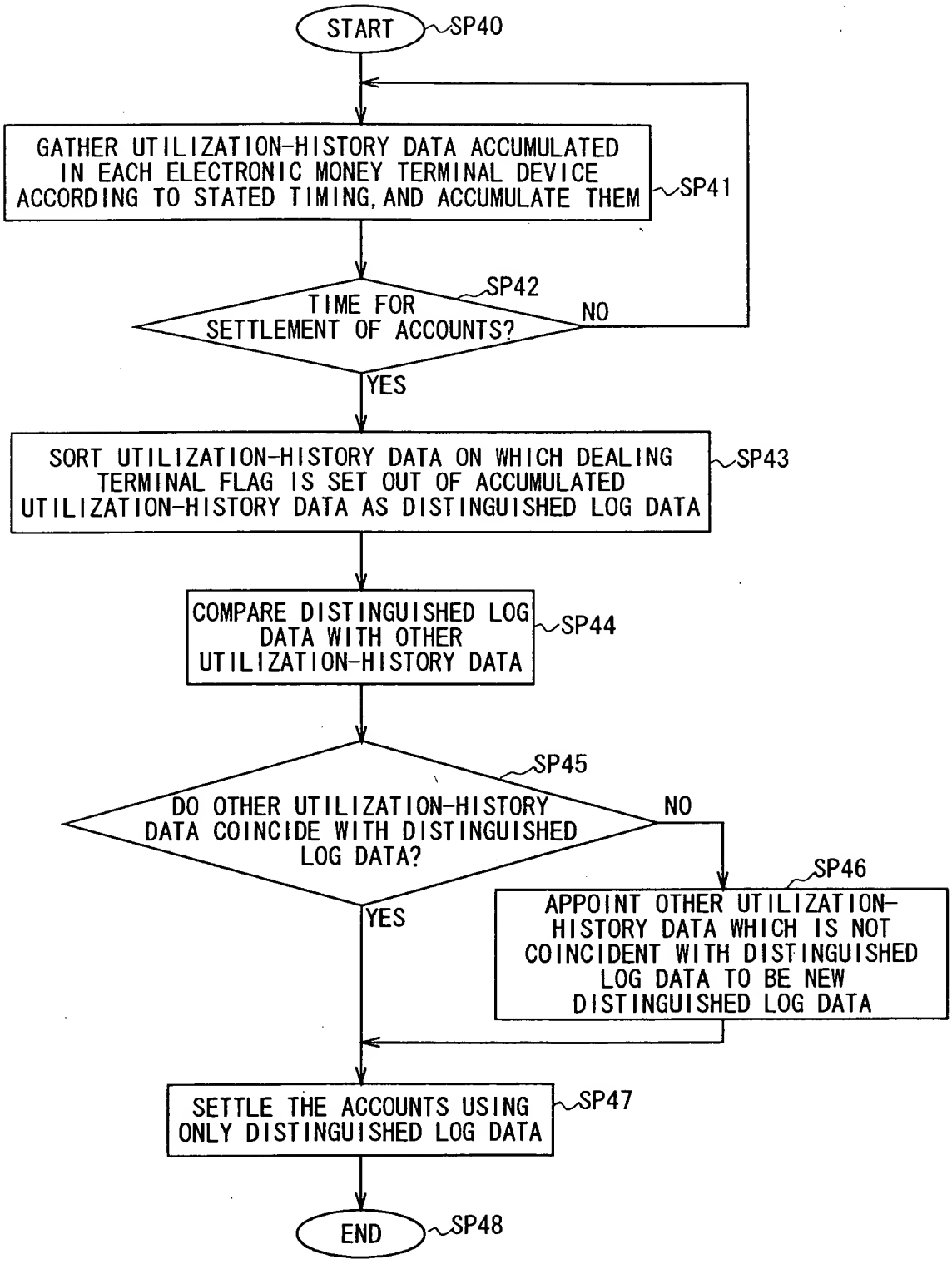

FIG. 16

0954254250224600

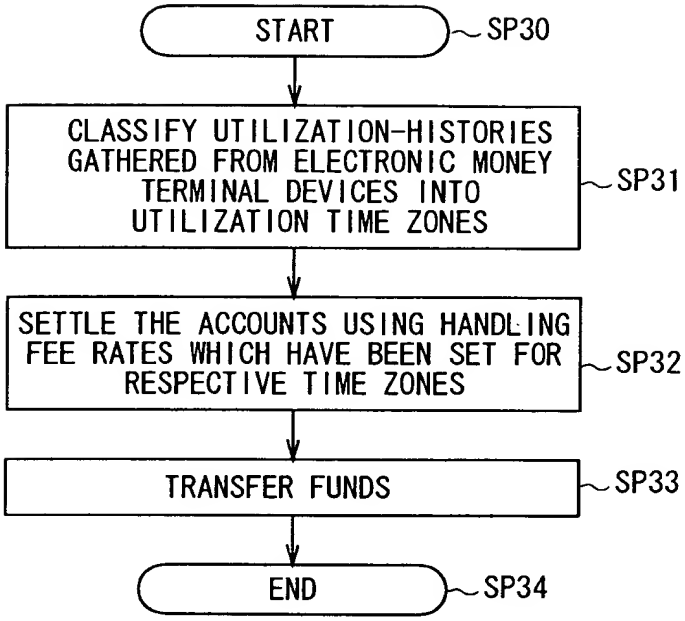

FIG. 17